L Number	Hits	Search Text	DB	Time stamp
19	5888	((709/223) or (709/224)).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/04 13:39
20	535	(711/158).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/04 13:40
21	1	(((709/223) or (709/224)).CCLS.) and ((711/158).CCLS.)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/04 13:40
22	388	(711/136).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/04 13:40
23	911	((711/136) or (711/158)).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/04 13:40
24	3	(((709/223) or (709/224)).CCLS.) and (((711/136) or (711/158)).CCLS.)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/04 13:41
-	2	("5840365").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/03 14:07
-	2	("5740365").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/03 14:51
-	59	((chang$6 alter$5) near3 cache$5) with (cach$5 near9 (priorit$5 rank$5))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/03 14:53
-	4	(chang$6 alter$5) near3 (server$3 near cache$5) with (cach$5 near9 (priorit$5 rank$5))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/03 14:53
-	59	(chang$6 alter$5) near3 (cache$5) with (cach$5 near9 (priorit$5 rank$5))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/03 14:58
-	8	((chang$6 alter$5) near3 (cache$5) with (cach$5 near9 (priorit$5 rank$5))) and 709/$.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/03 14:55
-	26	(((chang$6 alter$5 modif$9 updat$9) near3 cache$5) with (cach$5 near9 (priorit$5 rank$5))) and 709/$.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/03 15:25
-	1	(chang$6 alter$5 modif$9 updat$9) and 5892917.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/03 15:00

–	25	(((chang$6 alter$5 modif$9 updat$9) near3 cache$5) near9 (priorit$5 rank$5)) and 709/$.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/03 15:36
–	5	(((chang$6 alter$5 modif$9 updat$9) near3 (server$5 web) near cache$5) near9 (priorit$5 rank$5)) and 709/$.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/03 15:33
–	5	(((chang$6 alter$5 modif$9 updat$9) near3 (server$5 web) near cache$5) near9 (priorit$5 rank$5)) and (707/$ 709/$).ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/03 15:35
–	116	(((chang$6 alter$5 modif$9 updat$9) near3 cache$5) near9 (priorit$5 rank$5)) and @ad<20010501	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/03 15:50
–	8	(("6425057") or ("6415368") or ("6266742") or ("6012126")).PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/03 15:37
–	1	((chang$6 alter$5 modif$9 updat$9) near3 cache$5) and 6415368.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/03 15:51
–	1	((chang$6 alter$5 modif$9 updat$9) with cache$5) and 6415368.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/03 16:15
–	0	((chang$6 alter$5 modif$9 updat$9) with (rank$5 prior$9)) and 6415368.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/03 16:27
–	93	'cache priority'	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/03 16:30
–	0	'cache priority' with recency	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/03 16:30
–	8	cache near9 priorit$6 with recency	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/03 16:34
–	24	user near (favor$9 preference$3) near web near page$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/03 17:06
–	235	(reload$3 re-load$5) near9 refresh$5	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/03 17:10
–	749	(reload$3 re-load$5) near9 (replace$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/03 17:10

-	184	((reload$3 re-load$5) near9 (replace$5)) and (70?/$ 71?/$).ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/03 17:16
-	282	(id identif$9 count$3) near3 last near3 (web page$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/03 17:30
-	206	(id identif$9) near3 last near3 (web page$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/03 17:30
-	7	(id identif$9) near3 last near3 (web near (document$5 content$5 page$3))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/03 18:15
-	2	"20020010625"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/03 17:35
-	5	last near3 n near3 web near2 page$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/03 18:19
-	253	last near3 web near2 page$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/03 18:19
-	42	last near web near page$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/03 18:22
-	21	(last near web near page$3) and @ad<20010501	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/03 18:23
-	41	count$3 near web near page$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/03 18:24
-	16	(count$3 near web near page$3) and @ad<20010501	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/03 18:25
-	69	(calculat$5 count$3) near4 (number$5 total$3) near3 web near page$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/03 18:25
-	39	((calculat$5 count$3) near4 (number$5 total$3) near3 web near page$3) and @ad<20010501	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/04 11:20
-	0	user near2 surf$5 near2 habit$3 near2 information$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/04 12:20

-	4	user near surf$5 near habit$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/04 12:20
-	8	surf$5 near2 habit$3 near2 information$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/04 12:21
-	13	(object adj id) with (web)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/04 13:02
-	85	(http adj command) with (url)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/04 13:04

L Number	Hits	Search Text	DB	Time stamp
-	101	(frequenc$9 with request$5 with (web html))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/29 11:16
-	7	(frequenc$9 with request$5 with (web html)) and (cach$5 near9 (priorit$9 rank$5))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/28 17:41
-	1034	((frequenc$9 hit$3 number$5 quantit$5) with request$5) and (cach$5 near9 (priorit$9 rank$5))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/28 17:44
-	50	((frequenc$9 hit$3 number$5 quantit$5) with request$5 with (web html)) and (cach$5 near9 (priorit$9 rank$5))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/28 17:45
-	30	(((frequenc$9 hit$3 number$5 quantit$5) with request$5 with (web html)) and (cach$5 near9 (priorit$9 rank$5))) and @ad<20010501	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/28 17:53
-	0	((track$9 monitor$5 detect$6) with (session$5 near3 id)) and (((frequenc$9 hit$3 number$5 quantit$5) with request$5 with (web html)) and (cach$5 near9 (priorit$9 rank$5)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/28 17:55
-	1	(session$5 near3 id) and (((frequenc$9 hit$3 number$5 quantit$5) with request$5 with (web html)) and (cach$5 near9 (priorit$9 rank$5)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/28 17:56
-	6	(session$5 near3 id) and ((frequenc$9 with request$5 with (web html)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/28 17:56
-	2	("5892917").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/29 17:51
-	25	5892917.uref.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/29 15:40
-	16	(("6347312") or ("6324182") or ("6260061") or ("6243750") or ("6185608") or ("6101537") or ("6052439") or ("6018619")).PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/29 15:50
-	1579	(access$5 near3 log) and (hit miss priori$9 rank$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/29 15:53
-	66	(access$5 near3 log) and (cache near8 (hit miss priori$9 rank$3))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/29 15:53
-	66	(access$5 near3 log) and (cache near8 (hit miss priori$9 rank$3))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/29 15:53

-	43	(access$5 near3 log) and (cache near8 (hit miss priori$9 rank$3)) and @ad<20010501	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/29 15:56
-	17	(access$5 near3 log) and (cache near8 (hit miss priori$9 rank$3)) and @ad<20010501 and ((number$5 count$5) near3 (web page$3))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/29 16:52
-	24	(("6067565") or ("5881231") or ("6085226") or ("5727129") or ("5732240") or ("5920700") or ("6144962") or ("6026413") or ("5878384") or ("5964839") or ("6148332") or ("5935207")).PN.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/10/29 17:05
-	0	(identificat$5 id) near last near web near page$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/29 17:09
-	113	(identificat$5 id) near web near page$3	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/10/29 17:13
-	1	(identificat$5 id identit$9 tag$5) near web near page$3 near number$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/29 17:16
-	417	(identificat$5 id identit$9 tag$5) near (web page$3 html) near3 (number$3 count$5)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/10/29 17:17
-	279	(identificat$5 id identit$9 tag$5) near (web page$3 html) near (number$3 count$5)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/10/29 17:18
-	0	((identificat$5 id identit$9 tag$5) near (web page$3 html) near (number$3 count$5)) with (cach$5 near9 (priorit$9 rank$5))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/29 17:19
-	350	(identificat$5 id identit$9 tag$5) near web near page$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/29 17:19
-	3	((identificat$5 id identit$9 tag$5) near (web page$3 html) near (number$3 count$5)) and (cach$5 near9 (priorit$9 rank$5))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/29 17:23
-	144	(track$9 monitor$5 detect$6) with (session$5 near3 id)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/29 18:02

DOCUMENT-IDENTIFIER: US 20040133563 A1

TITLE: Maintaining independent states for multiple web browser
                  instances

---------- KWIC ---------

Summary of Invention Paragraph - BSTX (5):

[0004] Proxy servers or user preferences set in a Web browser can prevent
the use of cookies. A technique for maintaining a Web browser state, which
does not use cookies, is called "URL rewriting". As background, each **HTTP
command** contains a uniform resource locator ("**URL**") and optionally some
parameters. URL rewriting appends a session identifier ("ID") to every URL
contained in a Web page. The session ID identifies a session and thus state
information associated with that session. The session ID may be returned to
the Web server when a user clicks on any link in the Web page. The Web server
uses the session ID to restore the state of the Web page to the browser.

Detail Description Paragraph - DETX (18):

[0041] A user at device 11 accesses the Web page published by Web server
software 29 via Web browser 23. When the user clicks on the control feature, a
new Web browser window opens. The new Web browser window may be opened using a
JavaScript function, such as "window.open( )". This function requests a Web
page using the Web page URL and a session ID parameter. The request for the
Web page is sent from Web browser 23 to server 19 via external network 15. In
this embodiment, the request is an **HTTP command** that includes the Web page **URL**
and the session ID parameter associated with the control feature.

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"cache priority" user web frequency usage   [Search]   Advanced Search
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[PDF] Capacity Bound-free **Web** Warehouse
File Format: PDF/Adobe Acrobat - View as HTML
... is extra capacity, previous contents of **web** pages can ... A **user** can know the data in
the past ... 4.1 CBFWW Objects In conventional **cache, priority** information is used ...
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... Currently, **Web** indexers are unable to maintain anything close to ... or disk I/O's with
bursty **user** requests ... on criteria such as importance or **frequency** of access ...
www.db.stanford.edu/~olston/publications/bes.pdf - Similar pages

[PS] Best-Effort Cache Synchronization with Source Cooperation
File Format: Adobe PostScript - View as Text
... object refreshed based on the **cache's priority** using the ... Seventh International World
Wide **Web** Conference, Brisbane ... Expressing **user** profiles for data recharging. ...
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www.eso.org/~almamgr/AlmaAcs/Releases/ ACS_3_1/Docs/Logging_and_Archiving.pdf - Similar pages

[PDF] **User's** Guide
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... 10 DB2 Query Patroller **User's** Guide Page 19. Hourly Specifies that this query is
to be run on a hourly schedule, with the **frequency**, start date, and end date ...
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which **frequency** which ensemble ... A new **user** application again can provide ...
www.ertico.com/activiti/projects/ Doc_Library/Diamond%5C2_2d001f01.pdf - Supplemental Result - Similar pages

[PS] Market-Based Mobile-Agent Planning
File Format: Adobe PostScript - View as Text
... give the agent's data higher **cache priority** for an ... those used to disseminate information
over the **web**. ... finding was that variance in **user** preference strengthens ...
faculty1.coloradocollege.edu/ ~jbredin/personal/agents/proposal/prop.ps - Similar pages

Olston, Chris; Widom, Jennifer: Best-Effort Cache Synchronization ...
... sources to measure their true **cache priority**, thereby spot ... Seventh International
World Wide **Web** Conference, Brisbane ... Expressing **user** profiles for data recharging ...
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cache, **priority** information is ... **Web** data in a CBFWW can be defined as ...
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[PS] Exploiting Weak Connectivity in aDistributed File System
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... driver level, may yield a more accurate picture of network **usage**, particularly if ...
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1 Using name-based mappings to increase hit rates
David G. Thaler, Chinya V. Ravishankar
February 1998 **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 1

Full text available: ▣ pdf(408.98 KB)   Additional Information: full citation, references, citings, index terms

Keywords: World Wide Web, caching, client-server systems, computer networks, distributed agreement, multicast routing, proxies

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1   Using name-based mappings to increase hit rates   ▬
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Keywords: World Wide Web, caching, client-server systems, computer networks, distributed agreement, multicast routing, proxies

2   Exploration of large image collections using virtual reality devices   ▬
Robert van Liere, Wim de Leeuw
November 1999 **Proceedings of the 1999 workshop on new paradigms in information visualization and manipulation in conjunction with the eighth ACM internation conference on Information and knowledge management**

Full text available: 📄 pdf(480.56 KB)   Additional Information: full citation, abstract, references, citings, index terms

An image browser for the exploration of image collections is described The approach taken is to utilize VR input devices to develop more intuitive interaction metaphors that allow users to navigate through large collections of images. The browser presents query results as a strip of images and interaction with the strip is realized by interpreting the user's head movements. The browser is used as a front end to a visual information retrieval system.

Keywords: information visualization, virtual reality

3   Integrated document caching and prefetching in storage hierarchies based on Markov-   ▬
chain predictions
Achim Kraiss, Gerhard Weikum
August 1998 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 7 Issue 3

Full text available: 📄 pdf(603.01 KB)   Additional Information: full citation, abstract, citings, index terms

Large multimedia document archives may hold a major fraction of their data in tertiary storage libraries for cost reasons. This paper develops an integrated approach to the vertical data migration between the tertiary, secondary, and primary storage in that it reconciles

speculative prefetching, to mask the high latency of the tertiary storage, with the replacement policy of the document caches at the secondary and primary storage level, and also considers the interaction of these policies with ...

Keywords: Caching, Markov chains, Performance, Prefetching, Scheduling, Stochastic modeling, Tertiary storage

4 Session summaries from the 17th symposium on operating systems principle (SOSP'99)
Jay Lepreau, Eric Eide
April 2000 **ACM SIGOPS Operating Systems Review**, Volume 34 Issue 2

Full text available: pdf(3.15 MB)   Additional Information: full citation, index terms

5 A hierarchical fair service curve algorithm for link-sharing, real-time, and priority services
Ion Stoica, Hui Zhang, T. S. Eugene Ng
April 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 2

Full text available: pdf(278.75 KB)   Additional Information: full citation, references, citings, index terms

Keywords: fairness, link-sharing, packet scheduling, quality of service (QoS), real-time

6 A hierarchical fair service curve algorithm for link-sharing, real-time and priority services
Ion Stoica, Hui Zhang, T. S. Eugene Ng
October 1997 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '97 conference on Applications, technologies, architectures, and protocols for computer communication**, Volume 27 Issue 4

Full text available: pdf(2.35 MB)   Additional Information: full citation, abstract, references, citings, index terms

In this paper, we study hierarchical resource management models and algorithms that support both link-sharing and guaranteed real-time services with decoupled delay (priority) and bandwidth allocation. We extend the service curve based QoS model, which defines both delay and bandwidth requirements of a class, to include fairness, which is important for the integration of real-time and hierarchical link-sharing services. The resulting *Fair Service Curve link-sharing* model formalizes the go ...

7 Enabling scalable online personalization on the Web
Debra VanderMeer, Kaushik Dutta, Anindya Datta, Krithi Ramamritham, Shamkant B. Navanthe
October 2000 **Proceedings of the 2nd ACM conference on Electronic commerce**

Full text available: pdf(491.69 KB)   Additional Information: full citation, references, citings, index terms

Keywords: dynamic profiling, e-commerce, online personalization, user behavior

8
A survey of routing techniques for mobile communications networks

S. Ramanathan, Martha Steenstrup
October 1996 **Mobile Networks and Applications**, Volume 1 Issue 2

Full text available: pdf(276.88 KB)   Additional Information: full citation, abstract, references, citings, index terms

Mobile wireless networks pose interesting challenges for routing system design. To produce feasible routes in a mobile wireless network, a routing system must be able to accommodate roving users, changing network topology, and fluctuat- ing link quality. We discuss the impact of node mobility and wireless communication on routing system design, and we survey the set of techniques employed in or proposed for routing in mobile wireless networks.

9   A reliable multicast framework for light-weight sessions and application level framing
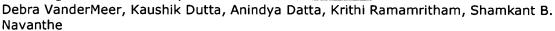Sally Floyd, Van Jacobson, Steve McCanne, Ching-Gung Liu, Lixia Zhang
October 1995 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication**, Volume 25 Issue 4

Full text available: pdf(1.67 MB)   Additional Information: full citation, abstract, references, citings, index terms

This paper describes SRM (Scalable Reliable Multicast), a reliable multicast framework for application level framing and light-weight sessions. The algorithms of this framework are efficient, robust, and scale well to both very large networks and very large sessions. The framework has been prototyped in wb, a distributed whiteboard application, and has been extensively tested on a global scale with sessions ranging from a few to more than 1000 participants. The paper describes the principles tha ...

10 Client-server computing in mobile environments
Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid
June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2

Full text available: pdf(233.31 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various way ...

Keywords: application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile compuing, mobile data, mobility awareness, survey, system application

11 Variations on UNIX for parallel-processing computers
Channing H. Russell, Pamela J. Waterman
December 1987 **Communications of the ACM**, Volume 30 Issue 12

Full text available: pdf(1.99 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Porting a familiar UNIX environment to today's parallel-processing computers is challenging, but options abound.

12 Automated hoarding for mobile computers
Geoffrey H. Kuenning, Gerald J. Popek
October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth**

ACM symposium on Operating systems principles, Volume 31 Issue 5

Full text available: pdf(2.05 MB)   Additional Information: full citation, references, citings, index terms

13 A reliable multicast framework for light-weight sessions and application level framing

Sally Floyd, Van Jacobson, Ching-Gung Liu, Steven McCanne, Lixia Zhang

December 1997 **IEEE/ACM Transactions on Networking (TON)**, Volume 5 Issue 6

Full text available: pdf(310.74 KB)   Additional Information: full citation, references, citings, index terms, review

Keywords: Internetworking, computer network performance, computer networks

14 Third Generation Computer Systems

Peter J. Denning

December 1971 **ACM Computing Surveys (CSUR)**, Volume 3 Issue 4

Full text available: pdf(3.52 MB)   Additional Information: full citation, abstract, references, citings, index terms

The common features of third generation operating systems are surveyed from a general view, with emphasis on the common abstractions that constitute at least the basis for a "theory" of operating systems. Properties of specific systems are not discussed except where examples are useful. The technical aspects of issues and concepts are stressed, the nontechnical aspects mentioned only briefly. A perfunctory knowledge of third generation systems is presumed.

15 Distributed operating systems

Andrew S. Tanenbaum, Robbert Van Renesse

December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4

Full text available: pdf(5.49 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Distributed operating systems have many aspects in common with centralized ones, but they also differ in certain ways. This paper is intended as an introduction to distributed operating systems, and especially to current university research about them. After a discussion of what constitutes a distributed operating system and how it is distinguished from a computer network, various key design issues are discussed. Then several examples of current research projects are examined in some detail ...

16 Tracking graphics state for networked rendering

Ian Buck, Greg Humphreys, Pat Hanrahan

August 2000 **Proceedings of the ACM SIGGRAPH/EUROGRAPHICS workshop on Graphics hardware**

Full text available: pdf(354.74 KB)   Additional Information: full citation, abstract, references, citings, index terms

As networks get faster, it becomes more feasible to render large data sets remotely. For example, it is useful to run large scientific simulations on remote compute servers but visualize the results of those simulations on one or more local displays. The WireGL project at Stanford is researching new techniques for rendering over a network. For many applications, we can render remotely over a gigabit network to a tiled display with little or no performance loss over running locally. One of t ...

Keywords: graphics state, networked rendering, remote rendering

17 4.2BSD and 4.3BSD as examples of the UNIX system
John S. Quarterman, Abraham Silberschatz, James L. Peterson
December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4

Full text available: pdf(4.07 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

This paper presents an in-depth examination of the 4.2 Berkeley Software Distribution, Virtual VAX-11 Version (4.2BSD), which is a version of the UNIX Time-Sharing System. There are notes throughout on 4.3BSD, the forthcoming system from the University of California at Berkeley. We trace the historical development of the UNIX system from its conception in 1969 until today, and describe the design principles that have guided this development. We then present the internal data structures and ...

18 A class of compatible cache consistency protocols and their support by the IEEE futurebus
P. Sweazey, A. J. Smith
June 1986 **ACM SIGARCH Computer Architecture News , Proceedings of the 13th annual international symposium on Computer architecture**, Volume 14 Issue 2

Full text available: pdf(1.05 MB)   Additional Information: full citation, abstract, references, citings, index terms

Standardization of a high performance blackplane bus, so that it can accommodate boards developed by different vendors, implies the need for a standardized cache consistency protocol. In this paper we define a class of compatible consistency protocols supported by the current IEEE Futurebus design. We refer to this class as the MOESI class of protocols; the term "MOESI" is derived from the names of the states. This class of protocols has the property that any system component ca ...

19 Workshop on compositional software architectures: workshop report
May 1998 **ACM SIGSOFT Software Engineering Notes**, Volume 23 Issue 3

Full text available: pdf(2.91 MB)   Additional Information: full citation, index terms

20 Effective use of Cray supercomputers
W. T. C. Kramer, J. M. Crawer
August 1989 **Proceedings of the 1989 ACM/IEEE conference on Supercomputing**

Full text available: pdf(1.37 MB)   Additional Information: full citation, references, index terms

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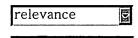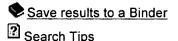
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1 Predicting document access in large multimedia repositories   ◼
Margaret M. Recker, James E. Pitkow
December 1996 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 3 Issue 4

Full text available: 📄 pdf(1.40 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Network-accessible multimedia databases, repositories, and libraries are proliferating at a
rapid rate. A crucial problem for these repositories remains timely and appropriate document
access. In this article, we borrow a model from psychological research on human memory,
which has long studied retrieval of memory items based on frequency and recency rates of
past item occurrences. Specifically, the model uses frequency and recency rates of prior
document accesses to predict future document ...

Keywords: information access, user modeling

2 Papers: A survey of web caching schemes for the Internet   ◼
Jia Wang
October 1999 **ACM SIGCOMM Computer Communication Review**, Volume 29 Issue 5

Full text available: 📄 pdf(1.15 MB)   Additional Information: full citation, abstract, references, citings

The World Wide Web can be considered as a large distributed information system that
provides access to shared data objects. As one of the most popular applications currently
running on the Internet, the World Wide Web is of an exponential growth in size, which
results in network congestion and server overloading. Web caching has been recognized as
one of the effective schemes to alleviate the service bottleneck and reduce the network
traffic, thereby minimize the user access latency. In this pap ...

3 A caching and streaming framework for mulitmedia   ◼
Shantanu Paknikar, Mohan Kankanhalli, K. R. Ramakrishnan, S. H. Srinivasan, Lek Heng Ngoh
October 2000 **Proceedings of the eighth ACM international conference on Multimedia**

Full text available: 📄 pdf(642.08 KB)   Additional Information: full citation, abstract, references, citings, index terms

In this paper, we explore the convergence of the *caching* and *streaming* technologies for
Internet multimedia. The paper describes a design for a streaming and caching architecture
to be deployed on broadband networks. The basis of the work is the proposed Internet

standard, Real Time Streaming Protocol (RTSP), likely to be the *de-facto* standard for web-based A/V caching and streaming, in the near future. The proxies are all managed by an `Intelligent Agent' or `Broker' - t ...

Keywords: broker, caching, hit ratio, layered coding, proxies, quality hit ratio, replacement policy, streaming

4 Evaluating content management techniques for Web proxy caches
Martin Arlitt, Ludmila Cherkasova, John Dilley, Rich Friedrich, Tai Jin
March 2000 **ACM SIGMETRICS Performance Evaluation Review**, Volume 27 Issue 4

Full text available: pdf(996.69 KB)   Additional Information: full citation, abstract, index terms

The continued growth of the World-Wide Web and the emergence of new end-user technologies such as cable modems necessitate the use of proxy caches to reduce latency, network traffic and Web server loads. Current Web proxy caches utilize simple replacement policies to determine which files to retain in the cache. We utilize a trace of client requests to a busy Web proxy in an ISP environment to evaluate the performance of several existing replacement policies and of two new, parameterless replace ...

5 Internet Web servers: workload characterization and performance implications
Martin F. Arlitt, Carey L. Williamson
October 1997 **IEEE/ACM Transactions on Networking (TON)**, Volume 5 Issue 5

Full text available: pdf(216.86 KB)   Additional Information: full citation, references, citings, index terms, review

Keywords: World-Wide Web, caching, performance evaluation, workload characterization

6 Adaptive push-pull: disseminating dynamic web data
Pavan Deolasee, Amol Katkar, Ankur Panchbudhe, Krithi Ramamritham, Prashant Shenoy
April 2001 **Proceedings of the tenth international conference on World Wide Web**

Full text available: pdf(152.08 KB)   Additional Information: full citation, references, citings, index terms

Keywords: World Wide Web, data dissemination, dynamic data, pull, push, resiliency, scalability, temporal coherency

7 Arguments in hypertext: a rhetorical approach
Locke M. Carter
May 2000 **Proceedings of the eleventh ACM on Hypertext and hypermedia**

Full text available: pdf(66.77 KB)   Additional Information: full citation, references, citings, index terms

Keywords: argumentation, discourse, hypertext, rhetoric

8 Considering video characteristics for improved cache performance in VOD systems
B. Sonah, M. R. Ito
March 2001 **Proceedings of the 2001 ACM symposium on Applied computing**

Full text available: pdf(65.79 KB)   Additional Information: full citation, references, index terms

Keywords: cache replacement policies, video-on-demand architectures

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